

Project Design Phase-II Data Flow Diagram & User Stories

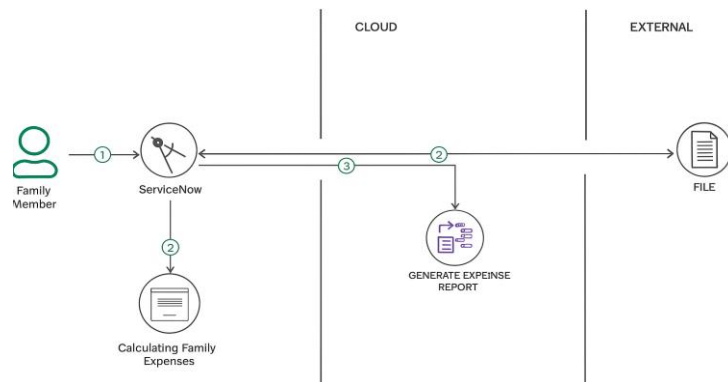
Date	2 NOVEMBER 2025
Team ID	NM2025TMID06595
Project Name	Calculating Family Expenses Using ServiceNow
Maximum Marks	4 Marks

Data Flow Diagrams:

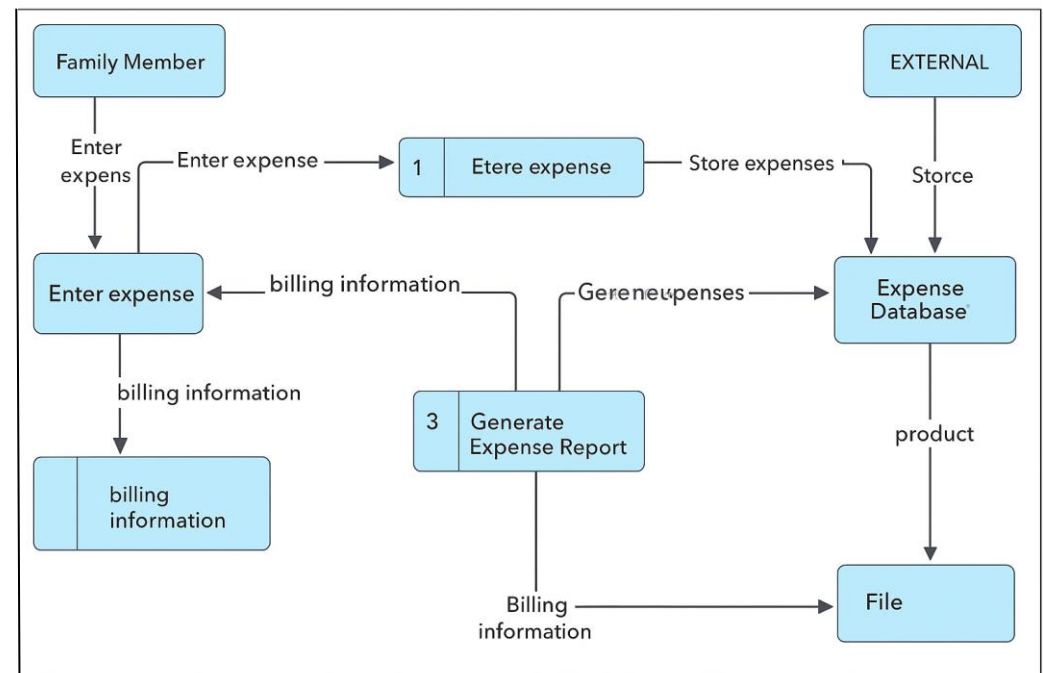
A Data Flow Diagram (DFD) visually represents how data moves within the family expense tracking system built on ServiceNow. It shows how users enter expenses, how the system processes them, and how the data is stored and summarized for reports. The DFD helps ensure that the expense data is accurate, categorized properly, and retrievable for analysis and budgeting purposes.

In the project 'Calculating Family Expenses Using ServiceNow', the DFD demonstrates how different family members interact with the system. Each member can log expenses, while the system categorizes them (e.g., groceries, utilities, entertainment) and stores them in the ServiceNow database. The system can then generate monthly summaries and budget insights to help manage spending.

Example:



1. Family member enters the expenses in ServiceNow.
2. ServiceNow saves the expense details.
3. The system calculates total and category-wise expenses.
4. It creates a family expense report.
5. The report is stored or downloaded as a file.



User Stories:

User stories describe what different users need from the expense management system in simple, goal-oriented terms. These stories ensure the application effectively tracks, analyzes, and reports family expenses, improving financial awareness.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Family Member	Expense Entry	USN-1	As a family member, I want to add my daily expenses in ServiceNow so that all expenses are recorded correctly.	The system should allow adding, editing, and deleting expenses with date, category, and amount.	High	Sprint-1
System (Auto-categorization)	Expense Processing	USN-2	As a system, I must automatically categorize expenses based on the entered details to help in analysis.	The system should automatically assign the right category and update totals.	High	Sprint-1
Admin/Parent	Expense Report & Analysis	USN-3	As an admin/parent, I want to view reports and summaries of expenses so that I can monitor family spending.	The report should show category-wise and monthly totals with visual summaries.	Medium	Sprint-2